



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

**NOTICE OF ALLOWANCE AND ISSUE FEE DUE**

IM31/0805

OSBORNE K MCKINNEY  
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FREEPORT TX 77541

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
08/834,050	04/11/97	013	WU. D	1713 08/05/98
First Named Applicant	CHUM. PAK-WING STEVE			

TITLE OF INVENTION **ETHYLENE POLYMER FILM MADE FROM ETHYLENE POLYMER BLENDS  
(AS AMENDED)**

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
1 40121BL	525-240.000	H49	UTILITY	NO	\$1320.00	11/05/98

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.  
PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS  
APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

**I. Review the SMALL ENTITY status shown above.**

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

**II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.**

**III. All communications regarding this application must give application number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.**

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

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**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

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Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/834,050    04/11/97    CHUM

P    40121BL

EXAMINER
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IM31/0805

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WU.D	
ART UNIT	PAPER NUMBER

1713

DATE MAILED:

08/05/98

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Notice of Allowability

Application No.

08/834,050

Applicant(s)

Chem et al.

Examiner

David Wu

Group Art Unit

1713



All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

☒ This communication is responsive to May 21, 1998.

☒ The allowed claim(s) is/are 9, 10, 12-14, and 24-31.

☐ The drawings filed on \_\_\_\_\_ are acceptable.

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_.

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE **THREE MONTHS** FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

☒ Applicant **MUST** submit **NEW FORMAL DRAWINGS**

☐ because the originally filed drawings were declared by applicant to be informal.

☒ including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. \_\_\_\_\_.

☐ including changes required by the proposed drawing correction filed on \_\_\_\_\_, which has been approved by the examiner.

☐ including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

## Attachment(s)

☐ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 3 & 7

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

☐ Interview Summary, PTO-413

☐ Examiner's Amendment/Comment

☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

☐ Examiner's Statement of Reasons for Allowance

DAVID WU  
PRIMARY EXAMINER  
ART UNIT 1713

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. The application has been amended as follows:

Cancel claims 15-16.

3. The following is an examiner's statement of reasons for allowance:

Claims 9-10, 12-14, and 24-31 are allowed because no prior art which anticipates or suggests fairly the instant claims has been located as of the date of this action.

Lai reference (U.S. Patent No. 5,408,004) which was thought to be the closest prior art discloses polyolefin blends comprising at least 10 percent, preferably at least 30 percent of at least one linear or substantially linear homogeneously branched polyethylene, such as one of a Tafmer TM, Exact TM or Insite TM (defined in column 3, lines 43-56), and the remainder of the blend comprises one or more heterogeneously branched polyethylene (defined in column 3, lines 3-14). In working examples 1-2, the polymer blend sample E-1 is prepared from a 50/50 of CGC resin (Sample C-1) and HDPE resin (Sample C-2),

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sample E-2 is also prepared from a 50/50 of CGC resin (Sample C-6) and HDPE resin (Sample C-7). Although Lai fails to disclose the property such as the slope of strain hardening coefficient of the substantially linear homogeneously branched polyethylene, in view of the same type of the polymer and made by the same technology taught by Lai reference and the instant disclosure, the Examiner has a reasonable basis to believe that Lai's substantially linear homogeneously branched polyethylene possesses substantially the same value of the slope of strain hardening coefficient. However, in view of Paper No. 7, the present application is entitled to the benefit of the filing date of its parent application 08/054,379, i.e., April 28, 1993, the Lai patent (U.S. 5,408,004, filed on August 17, 1993) is no longer a proper reference against the present invention.

Hodgson et al. (U.S. Patent No. 5,376,439) discloses a film comprising a mixture of (a) about 30 to 90% by weight of a copolymer of ethylene and a  $C_4$  to  $C_{20}$   $\alpha$ -olefin comonomer having a single melting point, a density of from about  $0.88 \text{ g/cm}^3$  to about  $0.91 \text{ g/cm}^3$ , a melt index of 0.5 to 7.5 dg/min., a molecular weight distribution less than 3.0 and a CBDI greater than 70%; and (b) a low density ethylene polymer having a density in the range of from about 0.91 to about  $0.935 \text{ g/cm}^3$ . See patented claims. Hodgson actually discloses blending with high pressure, highly branched ethylene polymers and does not disclose claimed

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component (B), i.e., at least one heterogeneously branched linear ethylene polymer having a density of about 0.93 to about 0.965 g/cm<sup>3</sup>. It would not have been obvious to one of ordinary skill in the art to modify the Hodgson reference to arrive at the instant claims because Hodgson fails to suggest or teach to do so.

The double patenting rejection over U.S. Patent No. 5,677,383 has been removed because claims 9-10, 12-16, and 24-31 and claims 17-23 are patentably distinct as shown in the restriction requirement and election made during the prosecution of 08/054,379. Further, claims 17-23 has been deleted.

Therefore, claims 9-10, 12-14, and 24-31 are allowable over Hodgson.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Wu whose telephone number is (703) 308-2450.

DWW  
July 31, 1998

*David Wu*  
DAVID W. WU  
PRIMARY EXAMINER  
GROUP 1500-  
1713